

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S2	1	"20030020004".pn.	US-PGPUB; USPAT	WITH	ON	2007/04/04 10:15
S3	10	figueria-r\$.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/04 10:31
S4	7	schmidt-manuel.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/04 10:32
S5	131	vishay-semiconductor-\$as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/04 10:36
S6	412	345/175.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/04 12:25
S7	145	250/214SW.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/04 12:31
S8	612	340/555.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/04 13:35

## EAST Search History

S10	2402	250/221.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/04 14:23
S11	2	"6835923".pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/04 16:00
S12	1382653	(LED or ((light\$1emitting or "light emitting") adj diode) or (light adj source))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/04 16:02
S13	425	(two or second) near2 S12 and reference near3 (light or S12) and (detector or photo\$1detector or photo\$1diode) and (offset or height) S12	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/04 16:08
S14	7	("4381446"   "4943712"   "5103085"   "5444264"   "5592033"   "6313825"   "6828546").PN. OR ("6965327").URPN.	US-PGPUB; USPAT; USOCR	WITH	ON	2007/04/04 16:35
S15	4	("5103085"   "5225689"   "5539199"   "5666037").PN. OR ("6953926").URPN.	US-PGPUB; USPAT; USOCR	WITH	ON	2007/04/04 16:37
S16	6	("4381446"   "4943712"   "5103085"   "5592033"   "6313825").PN. OR ("6828546").URPN.	US-PGPUB; USPAT; USOCR	WITH	ON	2007/04/04 16:37
S17	6	("3996797"   "5777451"   "6144017"   "6311005"   "6373215"   "6433501").PN. OR ("6634225").URPN.	US-PGPUB; USPAT; USOCR	WITH	ON	2007/04/04 16:38
S18	14	("6100538"   "6160479").PN. OR ("6362468").URPN.	US-PGPUB; USPAT; USOCR	WITH	ON	2007/04/04 16:41
S19	10	("4733081"   "4879461"   "4903009"   "4970384"   "4972070").PN. OR ("5668366").URPN.	US-PGPUB; USPAT; USOCR	WITH	ON	2007/04/04 16:43

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S20	35	("4022969"   "4092532"   "4303914"   "4354102"   "4390873"   "4409479"   "4631400"   "4686329").PN. OR ("4751505").URPN.	US-PGPUB; USPAT; USOCR	WITH	ON	2007/04/04 16:44
S21	17	("20020166885"   "20030128153"   "20030174054"   "20060120595"   "4716430"   "4752799"   "4988981"   "5149952"   "5229829"   "5532813"   "5541723"   "5686942"   "5701006"   "5865443"   "5963309"   "6172375"   "6611741").PN. OR ("7123351").URPN.	US-PGPUB; USPAT; USOCR	WITH	ON	2007/04/04 16:47
S22	11	("5059877"   "5237249"   "5313072"   "5386111"   "6084519"   "6118383"   "6232603"   "6239444").PN. OR ("6373215").URPN.	US-PGPUB; USPAT; USOCR	WITH	ON	2007/04/04 16:52
S23	20	("2651771"   "3937574"   "4065778"   "4473285"   "4479706").PN. OR ("4752799").URPN.	US-PGPUB; USPAT; USOCR	WITH	ON	2007/04/04 16:56
S9	148	340/555-557.ccls. and ((light source) or LED or emitting diode) (rais\$3 or elevat\$3 or high\$2 or plane or offset\$4 or platform)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/04 17:00
S24	69	340/555-557.ccls. and ((light source) or LED or emitting diode) distance	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/04 17:04
S25	617	second near2 S12 and S12 (distance or offset or height or plane) (substrate or board or carrier) and (sensor or detector or photo\$1detector or photo\$1diode)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/04 17:07
S1	28	reime-gerd.in.	USPAT	WITH	ON	2007/04/05 07:36

## EAST Search History

S26	8	sandwich circuit board height	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/05 07:38
S27	29	sandwich board height	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/05 07:39
S28	153	led same laminat\$3 circuit board	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/05 07:40
S29	96	epoxy resin housing same LED	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/05 08:07
S30	4	epoxy resin (impermeable or block) light same LED	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/05 08:09
S31	8	encapsul\$3 (impermeable or block) light same LED	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/05 08:28
S32	55	housing (chamfer\$3 or facet\$3) same LED	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/05 08:36

## EAST Search History

S33	157	wall (chamfer\$3 or facet\$3) same LED	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/05 08:55
S34	356	side (chamfer\$3 or facet\$3) same LED	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/05 09:06
S35	18	slanted housing same LED	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/05 09:07
S36	165	LED and reference (beam or light) same (slant\$3 or tilt\$3 or chamfer\$3 or facet\$3) (housing or wall or side or window)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/05 09:25
S38	146	LED and finger and epoxy housing	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/05 09:29
S37	297	LED and finger and opaque housing	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/05 09:49
S40	91	LED and finger and ((internal\$3 reflect\$3) or TIR) housing	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/05 10:08

## EAST Search History

S41	60	LED and touch and ((internal\$3 reflect\$3) or TIR) housing	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/05 10:08
S39	152	LED and finger and encapsul\$5 housing	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/05 10:10
S43	89	LED and touch and encapsul\$5 housing not S39	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/04/05 10:11